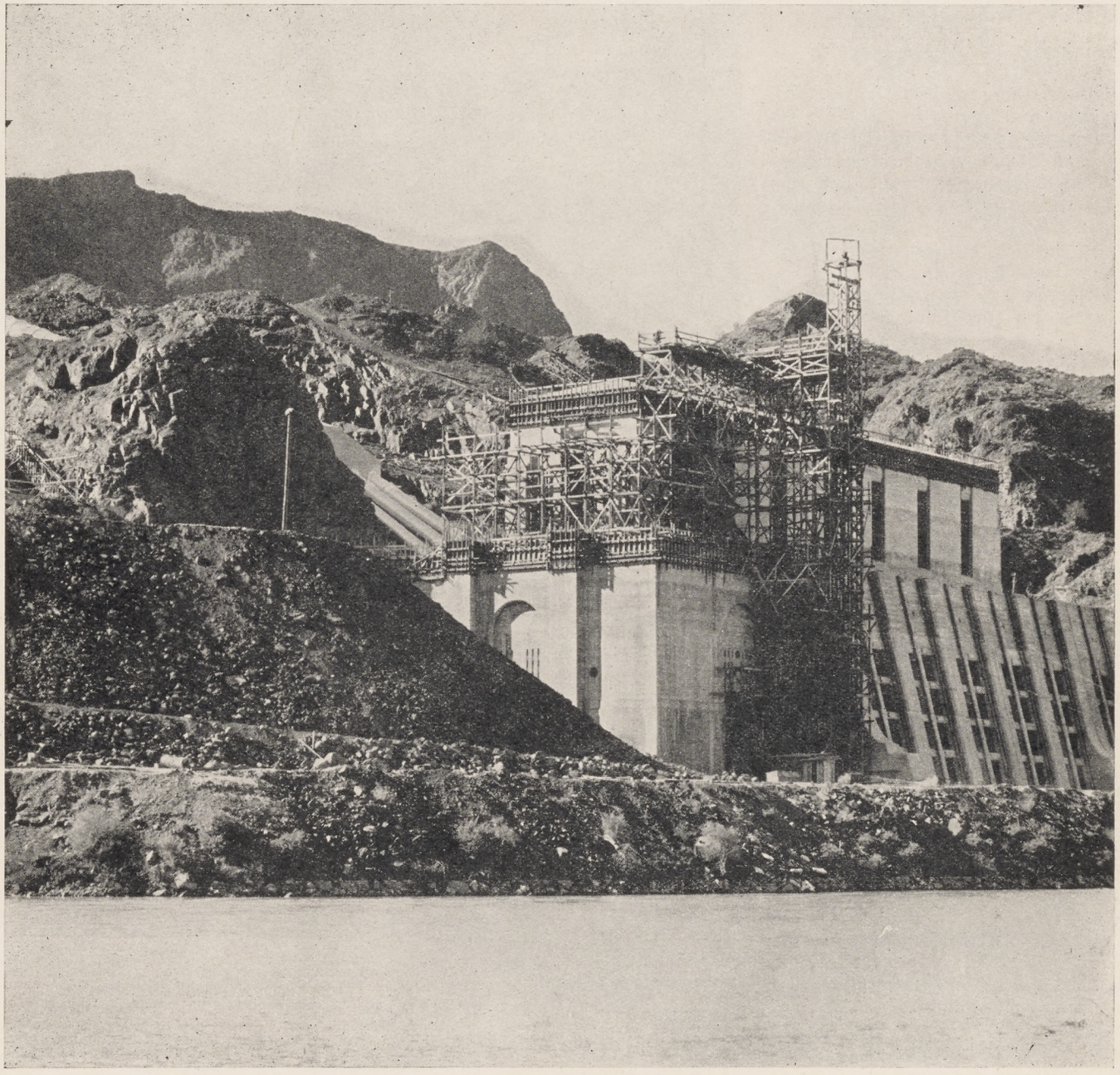
• COLORADO RIVER •

AQUEDUCT NEWS

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA

Vol. V FEBRUARY 10, 1938 No. 3



This excellent picture of the Intake Pumping Plant was taken from the Colorado River by the official photographer of the U. S. B. R. at Parker Dam.

• COLORADO RIVER •
AQUEDUCT NEWS
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA
306 West Third St.
Los Angeles, California

Published twice monthly in the interest of Field and Office Workers on the Colorado River Aqueduct, and for the information of all other citizens of the Metropolitan Water District.

Vol. V February 10, 1938 No. 3

Cabazon Crews Again Crack Record By Driving 920 Feet

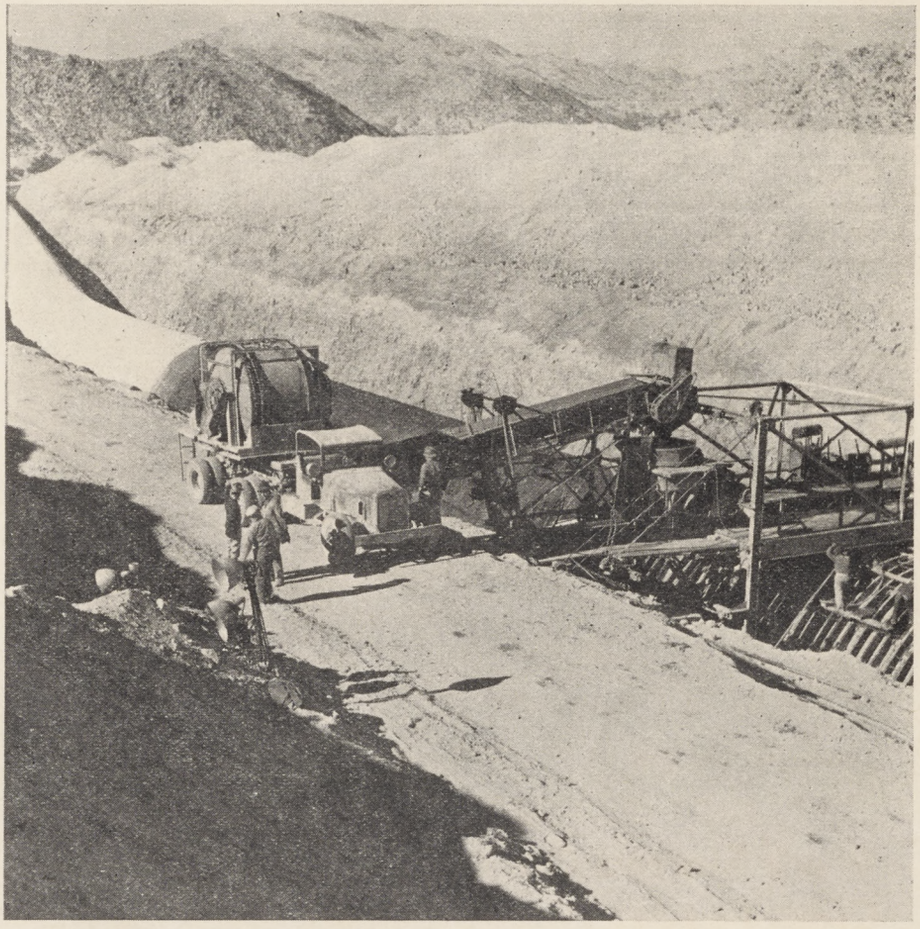
During the month of November, 1937, the hard-rock crews in the Cabazon headings of the San Jacinto tunnel established an all-time record for excavation of a single heading in that 13-mile tunnel when they made 869 feet. In December, and in spite of the Christmas shutdown, these crews came within 10 feet of that mark by driving 859 feet.

Determined to start the new year off in a big way, the Cabazoneers in January set a new all-time record when they excavated 920 feet of the 18-foot diameter heading at an average of nearly 30 feet per day. This bettered their previous record by 51 feet, and comes within striking distance of the all-time record for any single heading on a main aqueduct tunnel. This record is the 1101 feet made in a single month in 1000 Palms No. 1 in the West Coachella tunnels.

The operation of the two new headings at the foot of the Lawrence adit made the total progress in the San Jacinto tunnel amount to 1437 feet, which is the best progress in the tunnel since February, 1936. Total progress made at Lawrence was 317 feet during the month, of which 139 feet was east and 178 feet was west. Work was also continued during the period on the installation of equipment in the adit pumping stations. Potrero reported excavation of 196 feet of main heading in spite of heavy water conditions which continued during the entire period.

On February 1, a total of 15,207 feet of excavation remained to be accomplished in the San Jacinto tunnel. On that date the distance between Cabazon and Lawrence headings was 6474 feet, and 8733 feet remained between the Lawrence and Potrero headings.

Don't Forget the Field Party on February 19



Thompson-Starrett's concrete placing set-up for conduit construction on Schedule 16 on top of Mecca Pass. This equipment places about 600 feet of conduit concrete per week.

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Monrovia Tunnel No. 4, L. E. Dixon Co., Bent Bros., Inc., and Johnson, Inc., W. N. Evans, Supt.

(Canal, Siphon, Conduit)

Schedules Nos. 14, 15 and 16, Thompson - Starrett Co., Inc., Rodney Smith, Gen. Supt.; William Hayes, Excav. Supt.

Schedules Nos. 18, 19 and 20, J. F. Shea Co., Inc., J. G. Shea, Gen. Mgr.; H. F. Rennebohm, Supt.

(Distribution Pipe Line)

Schedules 6P and 7P, J. F. Shea Co., Inc., J. F. Shea, Gen. Mgr.; Ed. H. Shea, Gen. Supt.

Schedule 9P, 10P, 11P, United Concrete Pipe Corp., John Huber, Plant Supt.; Roy Richards, Construction Supt.

Schedules 8C, 9C, 12C, Basich Bros.; Dick Noble, Supt.

Schedule 21SC, 22SC, 23SC, J. F. Shea Co., Gilbert J. Shea, Supt.

(Dams)

Cajalco dam, The Griffith Co., Franz Fohl, Gen. Supt.

Parker Dam, J. F. Shea Co., Frank Crowe, Gen. Supt., H. P. Bunger, Constr. Eng., U.S.B.R.

Gene Wash dam, Copper Basin dam, J. F. Shea Co., Frank Crowe, Gen. Supt.

(Pumping Plants)

Intake and Gene, Winston Bros. and Crowell, R. A. Crowell, Supt.; F. T. Hillman, Engr.

Eagle Mountain, L. E. Dixon Co.; J. H. Larkin, Supt.

Hayfield, Dixon and Case; Crawford Strohacker, Supt.

Beginning excavation for Sch. 23SC on the Palos Verdes cross-feeder of the Distribution System. The machine, which has a double row of buckets, digs a vertical wall trench 6 feet wide and 18 feet deep.

Work Started On Cross-Feeder

Field construction of the Palos Verdes cross-feeder of the Distribution System was started on January 25, when the J. F. Shea Co. put a giant trenching machine into operation at 98th and Wadsworth streets in Los Angeles. Work on that part of the feeder which is now under contract, and totals 17.4 miles in length, is divided into three schedules, Nos. 21SC, 22SC, and 23SC.

Work started in January is at the south end of the latter schedule and will move north toward Eagle Rock Canyon, where the line connects with the Upper Feeder of the distributing system. The contractor also expects to begin work in the near future in Eagle Rock Canyon and work south on Schedule 21SC.

The trenching machine, illustrated above, is believed to be one of the largest of such machines ever used in this part of the country. It has a double row of chain-driven buckets and can be operated to excavate a vertical walled trench 8 feet wide and 32 feet deep, although the trench now being excavated is 6 feet wide and 18 feet deep.

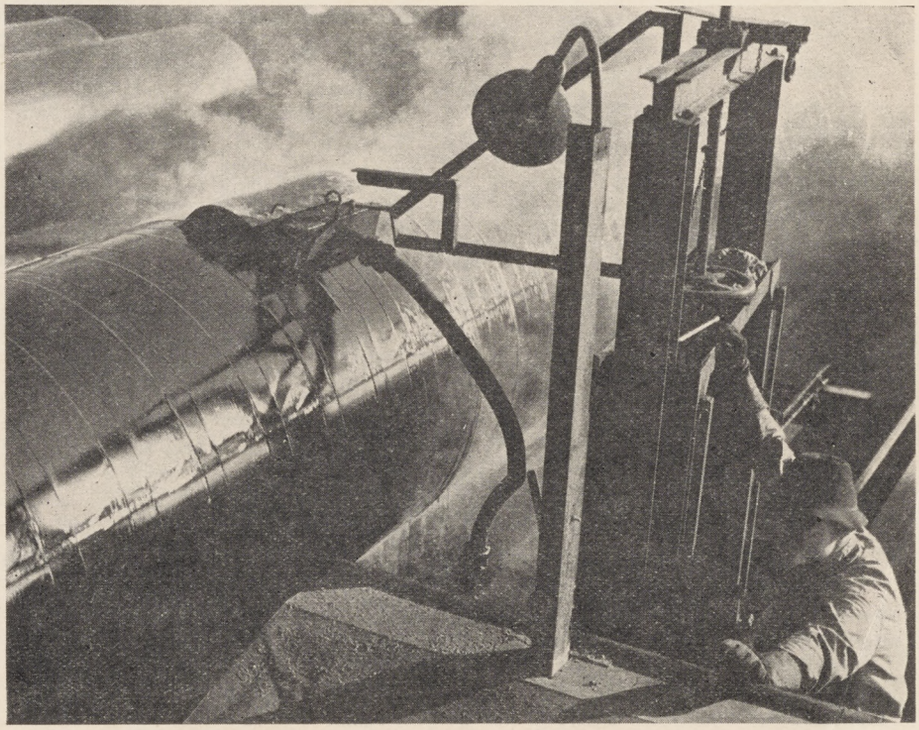
Work is also in progress on the fabrication of the pipe for the line. This work is being done at the Consolidated Steel plant, where the welded steel pipe sections are being fabricated, lined, and coated. The second picture on this page shows one of these 30-foot lengths of pipe receiving a coal tar enamel coating prior to the ¾-inch reinforced gunite coating which is later applied. Shown in the picture is the traveling kettle which applies the enamel. The ⅛-inch enamel coat is put on by two passes of this machine which applies the coal tar at a temperature of 490 deg.

Fence Construction Now Under Way

Progress reports from the desert indicate that work is now well under way on the construction of the 154 miles of 6-foot woven wire fences that will enclose aqueduct canals and reservoirs.

The Anchor Post Fence Company, whose main office is in Baltimore, Md., was the first contractor to get into the field and began the setting of fence posts on January 12. Progress reports are based on the lineal feet of canal covered by fence construction. At the end of January the Anchor Post company had dug 27,423 lineal feet of post holes, and had set 17,821 feet of posts.

Post holes are being dug with portable motorized augers. The specifications require that the steel fence posts shall be set in a concrete cylinder 14 inches in diameter and extending to a depth of 2½ feet below the ground surface. Along the canals, the posts are 2 inches in diameter, extending approximately 6 feet above the ground and are set on 12 foot centers.



Spinning coal tar enamel on the outside of the 30-foot, 51-inch diameter steel pipe sections to be installed in Sch. 23SC of the Palos Verdes cross-feeder.

TUNNELS

January 1 to January 31, 1938

TUNNEL EXCAVATION (MILES)

	Completed	Remaining
Aqueduct	89.23	2.88
Distribution	16.20	0
Total	105.43	2.88

TUNNEL LINING (MILES)

	Completed	Remaining
Aqueduct	85.02	7.09
Distribution	14.90	1.25
Total	99.92	8.34

AQUEDUCT

CONTRACTOR	TUNNEL	LENGTH IN FEET	EXCAVATION IN FEET: NUMBER OF SHIFTS	AVERAGE PER SHIFT	THIS PERIOD	TOTAL TO DATE	REMAINING	LINING IN FEET: ARCH OR INVERT	NUMBER OF SHIFTS	AVERAGE PER SHIFT	THIS PERIOD	TOTAL TO DATE	REMAINING
THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA	SAN JACINTO	(68,843)	(372)	(3.9)	(1,437)	(53,636)	(15,207)				*(3,646)	(31,422)	(37,421)
	Cabazon Shaft to East Portal	8,880		Completed		8,880	0	Arch	0	0	0	8,484	396
								Invert	0	0	0	8,484	396
	Cabazon to Lawrence	26,809	93	9.9	920	20,192	6,474	Arch	77	44.6	3,436	6,973	19,836
	Lawrence to Cabazon		93	1.5	139	143		Invert	0	0	0	2,855	23,954
	Lawrence to Potrero	17,672	93	2.0	182	192	8,733						
	Potrero to Lawrence		93	2.1	196	8,747		Arch	27	41.6	1,122	1,460	16,212
								Invert	0	0	0	2,811	14,861
	Potrero Shaft to West Portal	15,482		Completed		15,482	0	Arch	0	0	0	14,953	529
								Invert	0	0	0	15,482	0
	Lawrence Adit	5.664		Completed		5,664	0						
	Cabazon Pioneer			Suspended		7,274							
	Potrero Pioneer			Suspended		5,571							
	TOTALS Ft.	68,843	372	3.8	1,437	53,636	15,207	Arch	104	43.8	4,558	31,870	36,973
	Miles	(13.04)			(0.27)	(10.16)	(2.88)	Invert	0	0	0	29,632	39,211

DISTRIBUTION

GRIFFITH CO.	CAJALCO OUTLET	2,368		Completed		2,368	0				0	2,341	0
WEST CONSTRUCTION CO.	MONROVIA NO. 1 (FromW.P.)	7,868		Completed		7,868	0			Completed		7,796	0
	MONROVIA NO. 2 (FromJct.1)	940		Completed		940	0			Completed		856	0
	MONROVIA NO. 3	(32,105)		Completed		(32,105)	(0)				*(3,699)	(26,251)	(5,844)
	East from Adit	11,340				11,340	0	Full Sec.			0	12,279	
	West from Adit					5,913		Invert			0	19,352	464
	From West Portal	20,765				14,851	0	Arch	75	61.7	4,624	12,628	7,188
DIXON, BENT BROS. & JOHNSON	MONROVIA NO. 4 (FromW.P.)	8,133		Completed		8,133	0		75	13.8	1,034	7,342	791
	SAN RAFAEL No.1 (FromW.P.)	4,047		Completed		4,047	0			Completed		4,028	0
	SAN RAFAEL No. 2 (FromE.P.)	5,669		Completed		5,669	0			Completed		5,661	0
	TOTALS Ft.	61,130				61,130	0	Full	150	31.5	4,733	54,275	6,635
	Miles	(11.58)				(11.58)	0	Section			(0.89)	(10.28)	(1.25)

*Invert considered to equal 0.2 and arch 0.8 of completed section.

Miscellaneous Construction

January 16 to January 29, 1938

AQUEDUCT PUMPING PLANTS AND APPURTENANT WORKS

CONTRACTOR	FEATURES	EXCAVATION—Cu. Yds.: Est. Quan.	Period	To Date	%	CONCRETE—Cu. Yds.: Est. Quan.	Period	To Date	%	STEEL—Tons: Est. Quan.	Period	To Date	%
WINSTON BROS. CO. &	Intake Plant	115,600	0	115,600	100	23,192	192	23,081	99	1,809	12.8	1,787.9	99
WILLIAM C. CROWELL	Gene Plant	176,211	0	176,211	100	23,296	73	23,800	100	2,844	0	2,829.5	99
WOOD AND BEVANDA	Iron Mt. Plant	354,909	0	354,909	100	22,942	0	22,942	100	1,796	0	1,795.7	100
L. E. DIXON CO.	Eagle Plant	270,177	0	265,170	98	28,015	886	27,559	98	2,313	184.1	2,040.1	88
L. E. Dixon & Case Const. Co.	Hayfield Plant	351,884	0	350,721	99	37,208	870	30,025	81	3,415	293.1	2,187.3	64
	TOTALS	1,268,781	0	1,262,611		134,653	2,021	127,407		12,177	490.0	10,640.5	

PARKER RESERVOIR—SIX COMPANIES, INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Diversion Tunnels—Excav.	3,463 Ft.	0	3,463	100
Diversion Tunnels—Concrete	3,363 Ft.	0	3,363	100
Cofferdams—Excav.	227,582 C.Y.	0	227,582	100
Cofferdams—Fill	464,890 C.Y.	0	464,890	100
Outlet Works—Excav.	220,000 C.Y.	0	207,176	94
Outlet Works—Concrete	5,000 C.Y.	109	3,844	77
Dam—Excavation	1,510,200 C.Y.	0	1,508,105	99
Dam—Concrete	297,900 C.Y.	9,386	269,490	90
Power House—Excav.	58,000 C.Y.	0	56,700	98
Power House—Concrete	14,000 C.Y.	1,272	11,216	80

CAJALCO RESERVOIR—GRIFFITH COMPANY

FEATURES	Est. Quan.	Period	To Date	Percent
Diversion Tunnel	2,000 Ft.	0	2,000	100
Outlet App. Channel—Exc.	199,300 C.Y.	0	199,300	100
Outlet Tower—Concrete	3,290 C.Y.	0		99
Dam & Spillway—Exc.	693,800 C.Y.	0	689,600	99
Dam—Fill	3,140,000 C.Y.	0		99
Dam & Spillway—Concrete	26,820 C.Y.	0	26,820	100
Dike—Excavation	13,950 C.Y.	0	13,950	100
Dike—Fill	3,862,520 C.Y.	0	3,861,940	100
Dike—Concrete	44,160 C.Y.	0	44,160	100

GENE WASH RESERVOIR—J. F. SHEA CO., INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Dam—Excavation	7,500	0	7,500	100
Dam—Concrete	15,000 C.Y.	1,288	14,876	99
Spillway—Excavation	4,762 C.Y.	0	4,762	100
Spillway—Concrete	4,713 C.Y.	0	4,713	100
Dike—Excavation	4,000 C.Y.	0	1,840	46
Dike—Fill	10,500 C.Y.			
Dike—Concrete	1,200 C.Y.	0	200	17

COPPER BASIN RESERVOIR—J. F. SHEA CO., INC.

FEATURES	Est. Quan.	Period	To Date	Percent
Dam—Excavation	8,700 C.Y.	0	8,700	100
Dam—Concrete	16,275 C.Y.	0	760	5
Spillway—Excavation	6,700 C.Y.	0	6,000	89
Spillway—Concrete	1,000 C.Y.			
Outlet Works—Excavation	Lump Sum	9%	19%	19
Gate House Superstructure				
Clearing Reservoir Site	427 Ac.	5	325	75

TION PROGRESS

CANAL, CONDUIT, SIPHON & PIPE LINES

January 16 to January 29, 1938

CANAL, CONDUIT AND SIPHON (MILES)

	Completed	Remaining
Excavation	145.20	0.41
Concrete	142.83	1.73
Back Fill	77.40	3.44

DISTRIBUTION PIPE LINE (MILES)

	Completed	Remaining
Excavation	46.17	17.52
Concrete	46.06	17.63
Back Fill	46.03	17.66

AQUEDUCT

SCHED. NO.	CONTRACTOR	FEATURES	Length In Feet	EXCAVATION—Feet			CONCRETE—Feet			BACKFILL—Feet		
				Period	To Date	Remain'g	Period	To Date	Remain'g	Period	To Date	Remain'g
14	THOMPSON-STARRETT CO.	Conduit and Siphons	32,366	0	32,366	0	0	32,366	0	0	32,366	0
15		Conduit and Siphons	35,849	0	35,849	0	0	35,849	0	0	35.849	0
16		Conduit and Siphons	19,346	1,563	17,582	1,764	1,101	15,726	3,620	120	13,009	6,337
18	J. F. SHEA CO., INC.	Conduit and Siphons	27,537	0	27,537	0	0	27,537	0	0	27,327	210
19	J. F. SHEA CO., INC.	Conduit and Siphons	37,105	1,000	36,714	391	3,578	32,348	4,757	2,000	26,559	10,550
20		Siphons	18,618	0	18,618	0	0	18,618	0	0	18,618	0
20 A & B	M. W. D.—FORCE ACCT.	Siphons	752	0	705	47	0	0	752	0	0	752
3	WINSTON BROS. CO. & WILLIAM C. CROWELL	Siphon (Gene Inlet)	1,877	0	1,877	0	5	1,877	0	0	1,478	320
4		Siphon (Copper Basin)	450	0	450	0	0	450	0	0	0	0
	TOTALS		173,900	2,563	171,698	2,202	4,684	164,771	9,129	2,120	155,206	18,169

DISTRIBUTION PIPE LINES

6-P	J. F. SHEA CO., Inc.	Precast Concrete Pipe	27,294	0	27,294	0	0	27,294	0	0	27,294	0
7-P			30,044	0	30,044	0	0	30,044	0	0	30,044	0
9-P	UNITED CONC. PIPE CORP.	Precast Concrete Pipe	8,697	0	8,388	309	0	8,388	309	0	8,388	309
10-P			10,517	0	10,517	0	0	10,517	0	0	10,517	0
11-P			4,105	0	4,105	0	0	4,105	0	0	4,105	0
8C-9C-12C	BASICH BROTHERS	Cast-in-Place Conc. Pipe	1,656	156	864	792	73	643	1,013	0	480	1,176
21SC	J. F. SHEA CO., Inc.	Welded Steel Pipe	28,930	0	0	28,930	0	0	28,930	0	0	28,930
22SC			28,310	0	0	28,310	0	0	28,310	0	0	28,310
23SC			34,470	270	270	34,200	0	0	34,470	0	0	34,470
	TOTALS		174,023	426	81,482	92,541	73	80,991	93,032	0	80,828	93,195

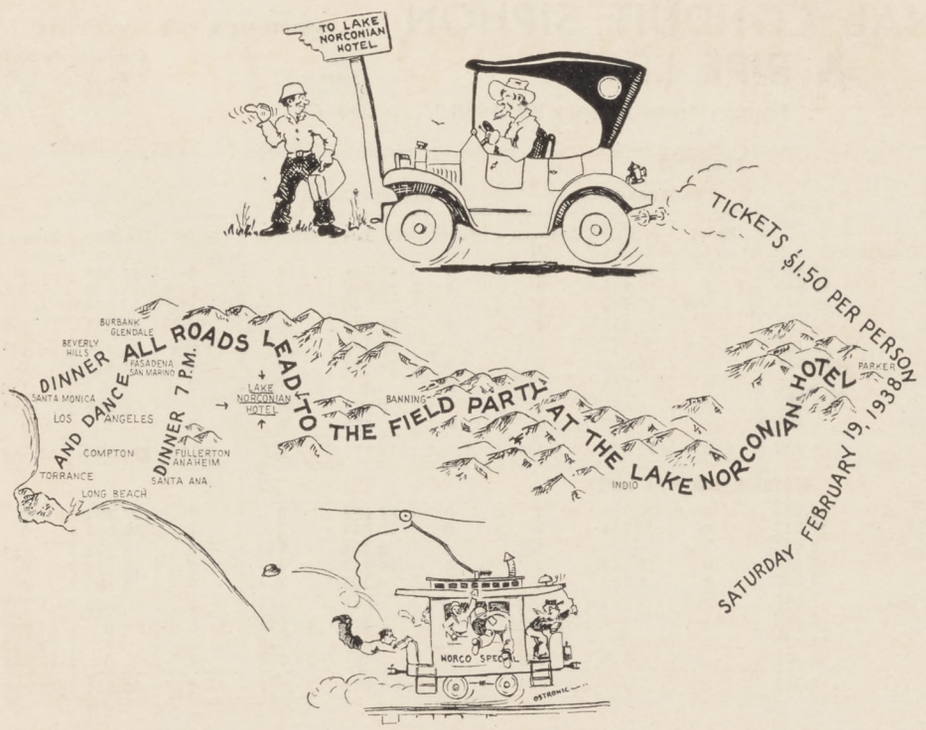
COMPLETED FEATURES

TUNNELS

	CONTRACTOR	TUNNEL	Length in Miles	Work Started	Work Completed
AQUEDUCT	MORRISON-KNUDSEN CO.	Mecca Pass, No. 1, 2 & 3	1.13	7-17-33	2-10-35
	WEST CONSTRUCTION CO.	Whitewater Nos. 1 & 2	1.94	7-18-33	4-15-35
	SHOFNER & GORDON	Hayfield No. 2	1.03	7-8-33	7-27-35
	HAMILTON & GLEASON	Bernasconi	1.18	4-19-33	11-21-35
	J. F. SHEA CO., INC.	Cottonwood	3.81	6-14-33	12-29-35
	HUNKIN-CONKEY CON. CO.	Hayfield No. 1	1.84	10-21-33	1-9-36
	DIXON & BENT BROS.	W. Eagle—West Portion	2.02	9-8-33	3-12-36
	DRAVO CONTRACTING CO.	Valverde	7.20	6-7-33	10-18-36
	WALSH CONSTRUCTION CO.	Colorado River	1.04	3-2-34	1-29-36
	WALSH CONSTRUCTION CO.	Copper Basin Nos. 1 & 2	2.92	10-4-33	2-20-36
	WALSH CONSTRUCTION CO.	Whipple Mountain	6.11	8-25-33	1-26-37
	UTAH CONSTRUCTION CO.	IronMt.—West Portion	3.07	5-15-33	10-23-36
	WINSTON BROS. CO.	Iron Mt.—East Portion	4.48	8-9-33	10-30-36
	METRO. WATER DIST.	1000 Palms No. 1	3.04	1-25-33	1-7-37
	" " "	1000 Palms No. 2	0.73	2-24-33	12-19-35
	" " "	Wide Canyon No. 1	2.71	3-31-33	2-11-37
	" " "	Wide Canyon No. 2	0.16	3-24-33	2-12-37
	" " "	Seven Palms	3.17	4-27-33	2-2-37
	" " "	Long Canyon	2.90	3-6-34	12-31-36
	" " "	Blind Canyon	1.29	3-22-34	12-3-36
	" " "	Morongo No. 1	1.08	4-21-34	1-20-37
	" " "	Morongo No. 2	0.36	12-29-34	1-5-37
	BRODERICK & GORDON	West Eagle Mt.—E. Portion	3.00	2-8-34	5-6-37
	WINSTON BROS.	Coxcomb	3.37	9-15-33	4-26-37
	METRO. WATER DIST.	East Coachella	18.30	1-25-33	5-8-37
	BRODERICK & GORDON	East Eagle Mt.	1.79	6-8-34	7-23-37
		TOTALS	79.07		
DISTRIBUTION	J. F. SHEA CO., INC.	Sierra Madre	1.27	9-1-35	10-31-36
	DIXON, BENT BROS. & JOHNSON	Pasadena Extension	1.05	10-5-35	11-24-36
	DIXON, BENT BROS. & JOHNSON	Pasadena	2.30	2-11-35	4-29-37
		TOTALS	4.62		

CANAL, CONDUIT, SIPHON, AND PIPE LINES

	CONTRACTOR	FEATURE AND NAME OR SCHEDULE	Length in Miles	Work Started	Work Completed
AQUEDUCT	UNITED CONCRETE PIPE CORP.	Little Morongo Siphon	0.13	2-27-34	8-20-34
	METRO. WATER DIS.	Fan Hill Conduit and Siphon	0.32	10-21-33	11-19-34
	MORRISON-KNUDSEN CO.	Sch. No. 18-J, Big Morongo and San Andreas Siphon	1.86	2-12-35	9-16-36
	GRIFFITH COMPANY	Sch. No. 20-C, 21, 22, 23 & 23-A	12.79	1-5-35	10-13-36
	JAHN & BRESSI CONST. CO.	Sch. No. 5, Canal and Siphons	10.15	12-18-34	11-17-36
	JAHN & BRESSI CONST. CO.	Sch. No. 4, Canal and Siphons	10.08	6-6-35	3-18-37
	UTAH CONSTRUCTION CO.	Sch. No. 9, Canal, Conduit & Sip.	8.97	12-12-34	5-15-37
	BARRETT-HILP & MACCO CORP.	Sch. No. 2, 3, 7, Canal, Con. & Sip.	18.71	12-3-34	5-25-37
	METRO. WATER DIST.	Sch. No. 17, Conduit and Siphons	4.16	9-9-35	6-15-37
	AQUEDUCT CONST. CO	Sch. No. 1,10,11,13 Canal, Con. & S.	26.99	1-24-35	6-24-37
	WOOD & BEVANDA	Sch. No. 6, 8, Canal & Siphons	12.28	11-27-34	7-28-37
	THREE COMPANIES, INC.	Sch. No. 12, Conduit & Siphons	6.24	1-8-35	11-6-37
		TOTALS	112.68		
DISTRIBUTION	UNITED CONCRETE PIPE CORP.	Sch. No. 8P, Precast Concrete Pipe	4.65	2-21-36	3-20-37
	WESTERN PIPE & STEEL CO.	Sch. No. 2S, 2B, Welded Steel Pipe	10.33	4-8-36	11-24-37
	AMER. CONC. & STEEL PIPE CO.	Sch. No. 1, 3, 4, 5, Precast Conc. Pipe	15.75	2-20-36	12-23-37
		TOTALS	30.73		



Aqueduct To Be Covered In Columbia Broadcast

On Saturday afternoon, Feb. 26, at 3:30 P. M., Pacific Coast Time, the Western Division of Public Affairs of the Columbia Broadcasting System will put on the air one of the most elaborate radio broadcasts that has ever been attempted when they cover the Metropolitan Aqueduct from Parker Dam to the most southerly point of the distributing system.

Six announcers at various points will be required to cover the broadcast which will be coast to coast and include Canadian radio stations associated with the CBS. The program will be broadcast locally from Radio Station KNX.

Included in the program will be "on the scene" descriptions of work on the new distributing lateral in the vicinity of 98th and Wadsworth streets. The program will then be switched 300 miles east to an announcer who will describe activities at Parker Dam, and then back to a word picture of construction work on the 13-mile San Jacinto tunnel.

Monrovia No. 4 Nears Completion

With attention being centered on the construction of feeder lines to the various cities in the M.W.D., weekly progress reports indicate that there is still a large amount of activity on other parts of the distributing system. On the week ending February 5, these reports showed that there was only 626 feet remaining to be lined in Monrovia tunnel No. 4. This job has been of particular note because of the fact that the tunnel has a 6% grade on its western end, this section being lined with steel cylinders, which in turn are lined with gunite and backed up with concrete.

Approximately 6,450 feet of arch lining remained to be placed in Monrovia tunnel No. 3 on the same date. This latter tunnel is the longest on the distributing system, having a length of 32,105 feet.

Other work remaining to be completed includes the construction of the cast-in-place reinforced concrete siphons across San Gabriel, Monrovia, and Eagle Rock canyons. Work has not yet been started on the Eagle Rock Canyon crossing, although such construction is well along in the other two canyons.

The Upper Feeder has a total length of 62 miles and a capacity of 750 cu. ft. per second, or approximately 500 million gallons of water per day. Included in the line are 16 miles of tunnels, and 46 miles of precast concrete and steel pipe lines.

Moon Guaranteed For Field Party

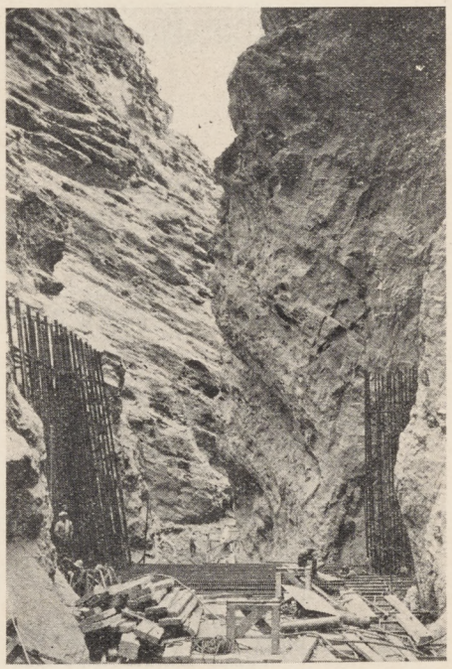
Recommending that all who can should plan to get to the Lake Norconian Hotel in the early afternoon of Saturday, February 19, in order to have a chance to see and enjoy the grounds and surroundings of the beautiful spa, the Field Party committee announce that all details for the big social event of the year have now been completed. The committee wish to specially point out that the invitation to attend the dinner and dance is extended to all ex-aqueduckers and their friends, as well as to everyone connected with the aqueduct at the present time.

Last arrangements completed were for an orchestra, Cecil Johnson and his 10-piece Mt. Baldy Orchestra, and for an extra bright moon on that night. The committee reports that it was only after great endeavor and expense that the weather man would guarantee to produce the latter in the quantity and at the time required.

On the matter of dress, the committee's social arbitrater states, "Tuxedos will not be out of place, but most men will wear the clothes they ordinarily wear at smart dancing places. The ladies, as usual, will take the opportunity to wear their most fetching dinner dresses."

That being settled, the only other minor point is, of course, the cost—which will be $1.50 per plate. Dinner is at 7:00 P. M., with dinner music until 8:30. Dancing will be from 8:30 P. M., until 1:00 P. M.

Tickets may be reserved at all division camps and in the L. A. office. The committee state that advance sales point to a large turnout.



Rail steel being placed for perimeter reinforcement in the Copper Basin Dam.
—Photo by U.S.B.R., Parker Dam.